

WHAT IS CLAIMED IS:

1           1. A rolling bearing for a hard disk drive  
2 comprising:  
3           an inner ring;  
4           an outer ring;  
5           a plural number of rolling elements located between  
6 said inner ring and said outer ring;  
7           a cage supporting a plural number of rolling  
8 elements;  
9           a pair of sealing members fixed to the both ends in  
10 the axial direction of one of said inner ring and said outer  
11 ring and disposed opposite to each other; and  
12           a lubricating oil injected into a bearing space  
13 defined between said sealing members at the both ends in the  
14 axial direction, wherein the amount of the lubricating oil is  
15 in a range of 1 to 50% by volume of the bearing space.

1           2. The rolling bearing for a hard disk drive  
2 according to claim 1, in which the amount of said lubricating  
3 oil is not more than 30% by volume of the bearing space.

1           3. The rolling bearing for a hard disk drive  
2 according to claim 1, in which the amount of said lubricating  
3 oil is in a range of 4-25% by volume of the bearing space.

1           4. The rolling bearing for a hard disk drive

2 according to claim 1, in which a lubricating oil is  
3 preliminarily contained in said cage.

1 5. The rolling bearing for a hard disk drive  
2 according to claim 4, in which an amount of said lubricating  
3 oil preliminary contained in said case is in a range of 0.1-  
4 80% by weight of said cage.

1 6. The rolling bearing for a hard disk drive  
2 according to claim 5, in which an amount of said lubricating  
3 oil preliminary contained in said case is in a range of 10-  
4 70% by weight of said cage.

1 7. The rolling bearing for a hard disk drive  
2 according to claim 6, in which an amount of said lubricating  
3 oil preliminary contained in said case is not more than 40%  
4 by weight of said cage.